

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321854

Luminaire Tested: **GAN-SA0C-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41651 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

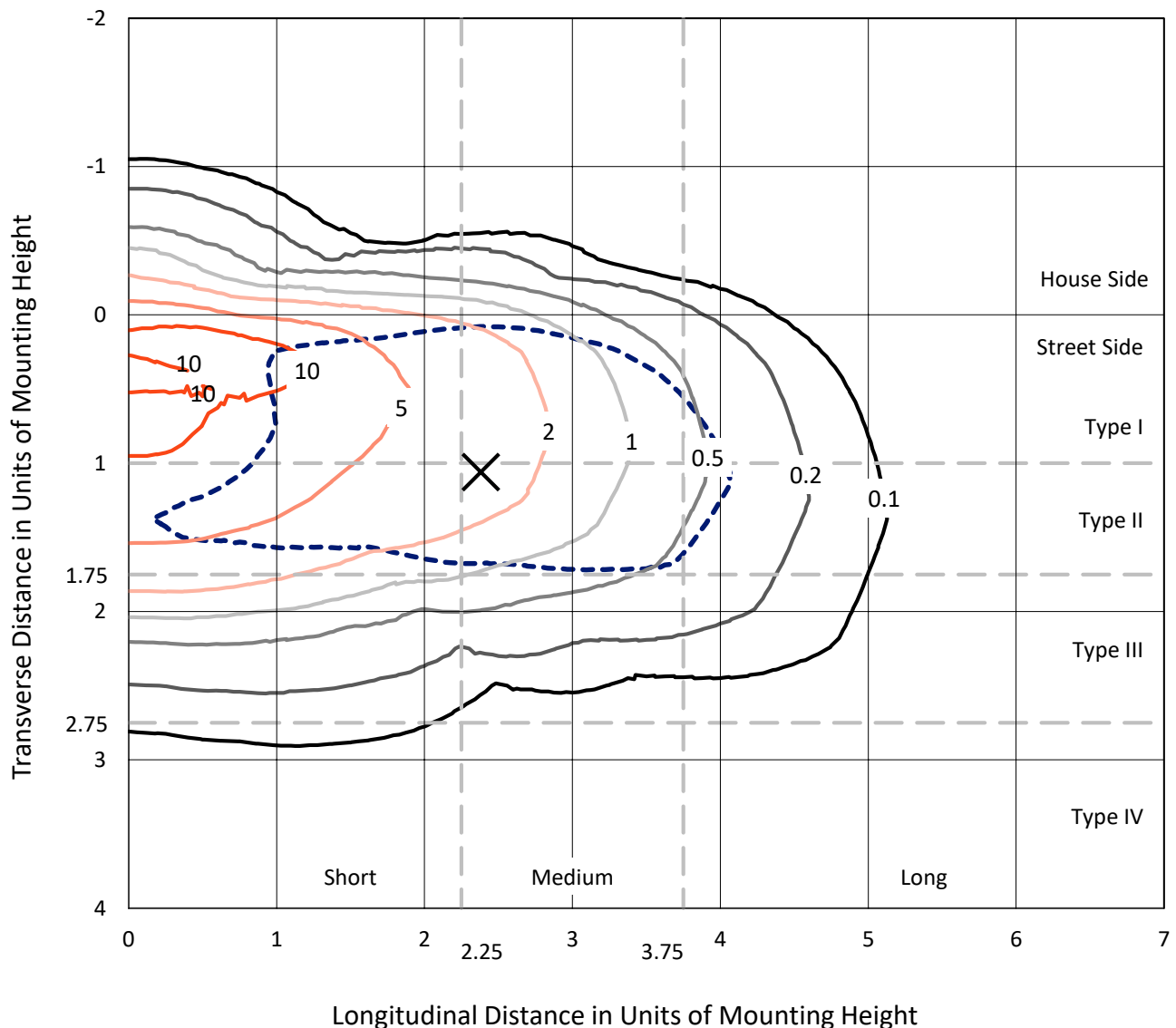
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

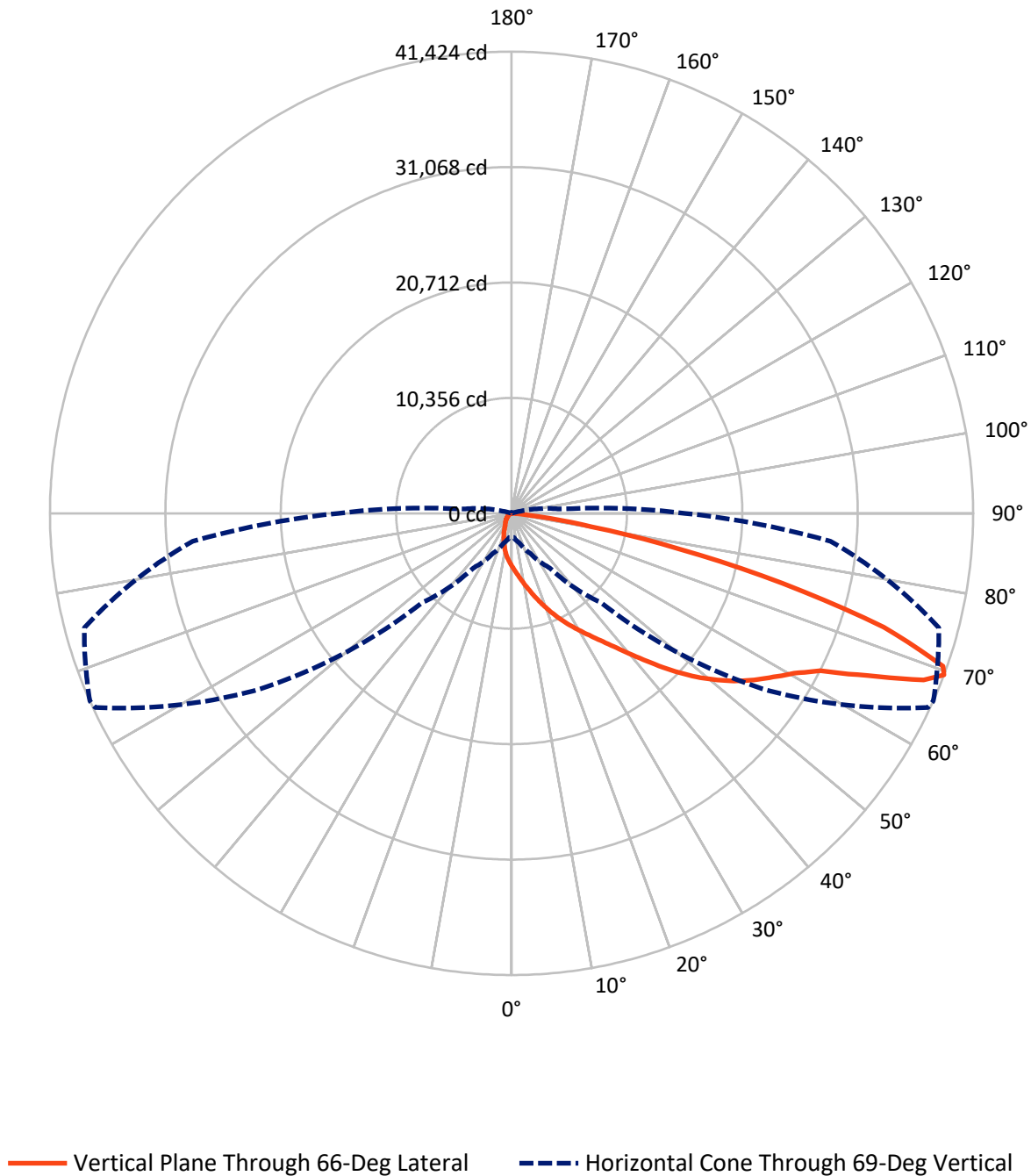
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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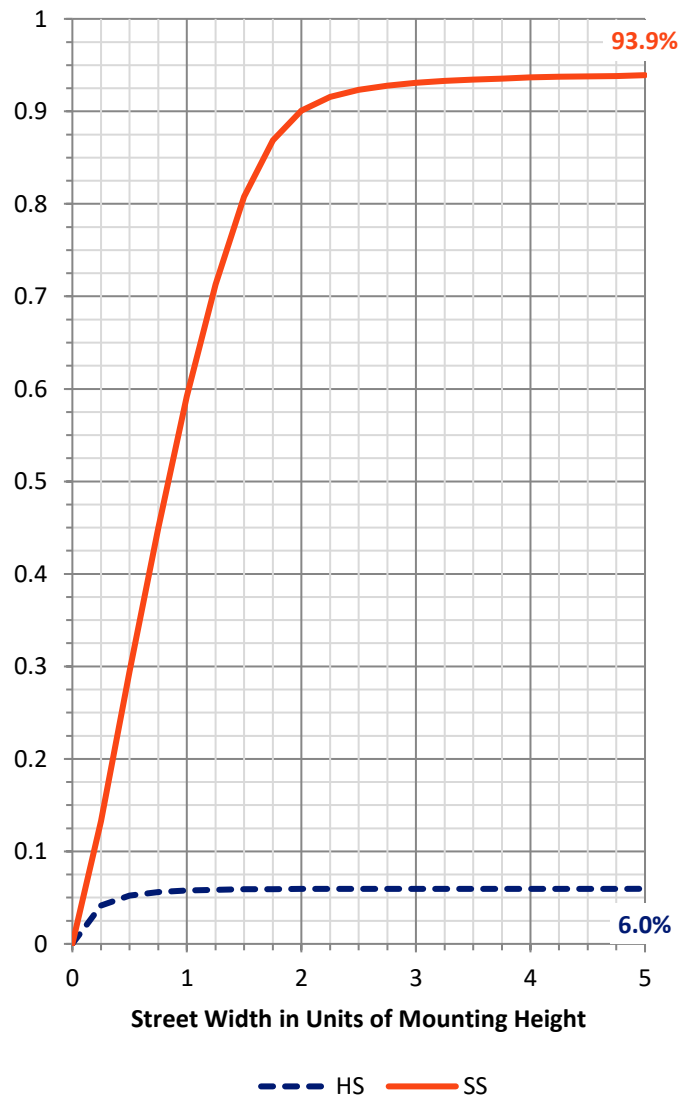
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2498.5	0.0	2498.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	39152.5	0.0	39152.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	41651.0	0.0	41651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.2	1.1
10°-20°	1363.6	3.3
20°-30°	2374.6	5.7
30°-40°	4166.2	10.0
40°-50°	6973.6	16.7
50°-60°	10250.6	24.6
60°-70°	10524.8	25.3
70°-80°	5195.8	12.5
80°-90°	343.6	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	41651.0	100.0
0°-180°	41651.0	100.0

Coefficient of Utilization



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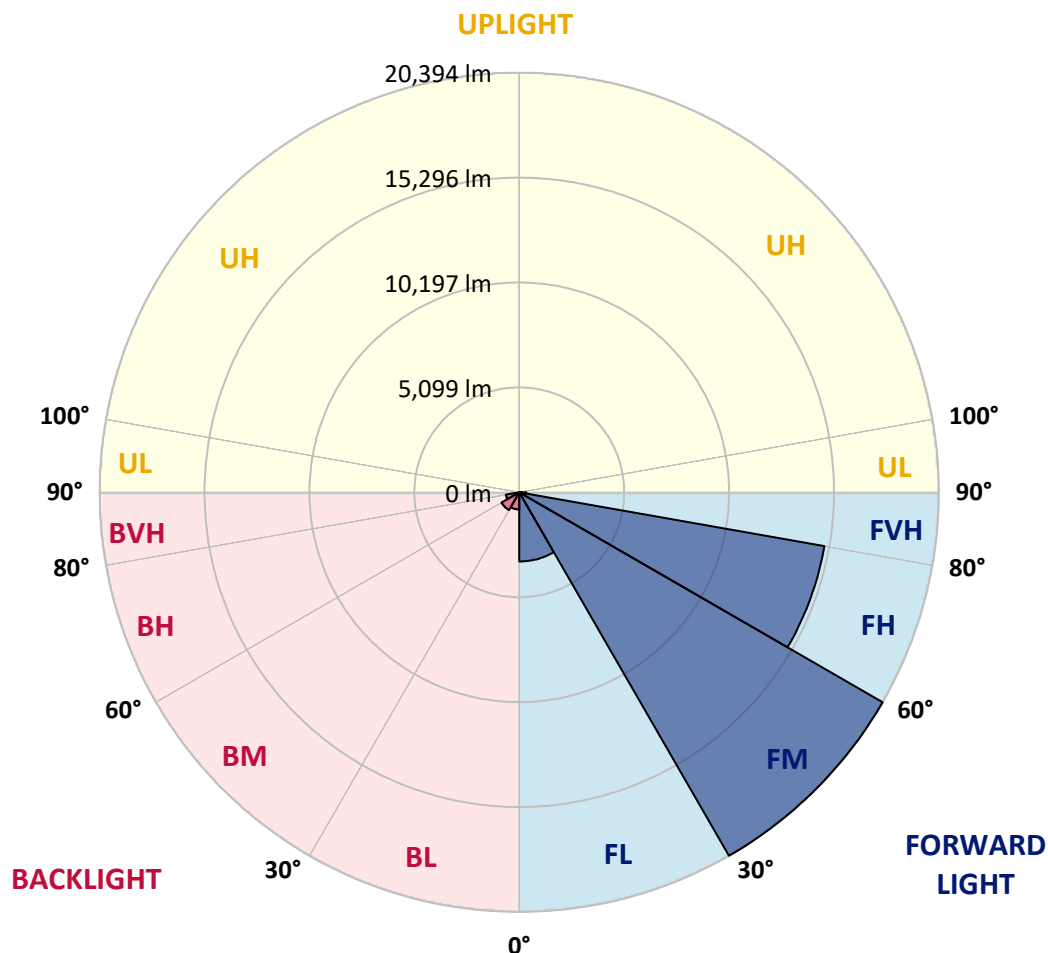
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3360.8	8.1			
FM	(30°-60°)	20394.3	49.0			
FH	(60°-80°)	15062.1	36.2			G5
FVH	(80°-90°)	335.2	0.8			G3/500
BL	(0°-30°)	835.6	2.0	B2/1000		
BM	(30°-60°)	996.2	2.4	B1/1000		
BH	(60°-80°)	658.4	1.6	B2/1000		G2/1000
BVH	(80°-90°)	8.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0
2.5°	5578.8	5555.1	5545.2	5501.7	5426.5	5369.1	5258.3	5129.7	5106.0	4981.4	4829.0
5°	6302.9	6283.1	6269.2	6207.9	6130.8	5986.3	5784.6	5545.2	5499.7	5262.3	4957.6
7.5°	6807.3	6843.0	6843.0	6803.4	6706.5	6597.6	6350.4	6023.9	5966.6	5602.6	5129.7
10°	7102.1	7145.6	7179.3	7212.9	7199.0	7155.5	6922.1	6554.1	6484.9	6002.2	5329.6
12.5°	7129.8	7173.3	7268.3	7408.8	7545.3	7644.2	7497.8	7141.7	7062.5	6465.1	5566.9
15°	6975.5	7021.0	7167.4	7440.4	7770.8	8059.6	8107.1	7792.5	7711.4	7017.0	5863.7
17.5°	6706.5	6736.1	6945.8	7323.7	7842.0	8372.2	8659.0	8490.9	8415.7	7648.1	6194.1
20°	6506.6	6528.4	6712.4	7117.9	7798.5	8568.0	9181.3	9232.7	9153.6	8324.7	6552.1
22.5°	6848.9	6888.5	6894.4	7086.3	7679.8	8665.0	9640.3	9962.7	9903.4	9042.8	6904.3
25°	7784.6	7830.1	7679.8	7561.1	7780.7	8708.5	10034.0	10710.5	10663.1	9816.3	7258.4
27.5°	9021.1	9068.5	8874.7	8520.6	8308.9	8872.7	10384.1	11470.2	11468.2	10635.4	7640.2
30°	10235.7	10283.2	10085.4	9731.3	9244.6	9337.6	10686.8	12265.5	12277.4	11480.1	8045.8
32.5°	11509.8	11569.1	11365.4	10910.3	10401.9	10140.8	11112.1	13064.7	13132.0	12459.4	8502.8
35°	12957.9	12965.8	12679.0	12202.2	11616.6	11215.0	11794.7	13960.9	14121.1	13672.1	9082.4
37.5°	14378.3	14435.7	14200.3	13448.5	12910.4	12455.4	12809.5	15080.6	15308.1	15153.8	9840.1
40°	15430.8	15551.5	15517.8	14706.7	14196.3	13871.9	14069.7	16412.0	16700.8	16878.9	10795.6
42.5°	16091.5	16182.5	16336.8	15848.2	15385.3	15438.7	15557.4	17963.0	18319.1	18845.3	11893.6
45°	16849.2	16892.7	17021.3	16805.7	16493.1	17031.2	17136.1	19709.8	20083.7	20960.1	13112.2
47.5°	17775.1	17877.9	17913.5	17715.7	17573.3	18439.8	18657.4	21298.4	21822.7	23225.3	14402.1
50°	18954.1	18981.8	19043.2	18914.6	18772.1	19650.5	20022.4	22966.1	23442.9	25498.4	15674.1
52.5°	20107.5	20206.4	20420.1	20338.9	20281.6	20681.2	21239.1	24469.6	25001.8	27393.6	16944.2
55°	20439.8	20524.9	21262.8	21767.3	22234.2	21951.3	22402.3	25816.9	26392.6	29087.0	18166.8
57.5°	19112.4	19284.5	20562.5	21876.1	23812.9	23925.6	24000.8	27199.7	27716.0	30384.8	19438.8
60°	15757.2	15790.8	17887.8	20141.1	23551.7	25648.7	26335.2	28685.4	29118.7	31593.5	20962.1
62.5°	10022.1	10364.3	12665.1	15846.2	20790.0	25399.5	29158.2	30932.8	31091.0	33043.6	23146.2
65°	4773.6	4995.2	6653.0	9790.6	15058.9	22208.4	31106.9	34998.2	35069.4	35918.1	26064.2
67.5°	2643.0	2749.8	3539.2	5270.2	8803.5	15705.8	30319.5	39813.4	39880.6	38853.9	28624.1
69°	2067.3	2158.3	2779.5	3972.4	5968.5	11288.2	27437.1	41223.9	41423.7	39694.7	28715.1
70°	1754.8	1843.8	2393.7	3355.2	4799.4	8722.3	24422.2	40873.7	41085.4	39615.5	28036.5
72.5°	1074.2	1125.7	1594.5	2362.1	3216.7	4387.9	15060.8	34566.9	34925.0	36339.5	24095.7
75°	724.1	751.8	997.1	1630.1	2300.8	2259.2	7824.2	24364.8	25140.3	28268.0	17796.8
77.5°	518.3	544.0	668.7	1054.4	1612.3	1491.6	3543.1	15141.9	15308.1	16954.1	9705.6
80°	294.8	318.5	472.8	627.1	1094.0	995.1	1408.6	7232.7	7315.8	7270.3	3240.5
82.5°	154.3	174.1	259.2	413.5	702.3	650.9	585.6	2421.4	2433.3	2023.8	710.2
85°	29.7	35.6	128.6	282.9	362.0	282.9	239.4	567.8	579.6	512.4	176.1
87.5°	0.0	2.0	51.4	63.3	71.2	73.2	77.2	110.8	118.7	160.2	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0	4740.0
2.5°	4761.8	4690.6	4554.1	4395.8	4273.1	4152.5	4057.5	3958.6	3923.0	3905.2	3903.2
5°	4809.3	4658.9	4370.1	4073.3	3830.0	3600.5	3436.3	3280.0	3206.8	3173.2	3159.4
7.5°	4888.4	4647.0	4182.1	3729.1	3378.9	3092.1	2864.6	2694.5	2609.4	2573.8	2559.9
10°	4981.4	4631.2	3962.5	3365.1	2918.0	2621.3	2395.7	2227.6	2134.6	2095.0	2075.2
12.5°	5090.2	4603.5	3709.3	2997.1	2524.3	2227.6	1954.6	1746.8	1640.0	1594.5	1572.8
15°	5224.7	4575.8	3444.2	2650.9	2178.1	1816.1	1517.4	1376.9	1355.1	1347.2	1349.2
17.5°	5357.2	4532.3	3155.4	2308.7	1814.1	1418.4	1266.1	1258.2	1262.2	1262.2	1262.2
20°	5475.9	4433.4	2840.8	2015.9	1467.9	1196.9	1165.2	1151.4	1141.5	1133.6	1123.7
22.5°	5568.9	4300.8	2538.2	1725.1	1198.9	1096.0	1046.5	1003.0	967.4	943.7	931.8
25°	5632.2	4124.8	2261.2	1446.1	1078.2	997.1	908.0	834.8	779.5	745.8	732.0
27.5°	5679.7	3934.8	2013.9	1210.7	995.1	882.3	765.6	678.6	621.2	591.5	579.6
30°	5713.3	3719.2	1796.3	1064.3	902.1	761.6	637.0	551.9	510.4	494.6	486.7
32.5°	5745.0	3479.8	1590.6	995.1	815.1	650.9	534.1	468.9	443.1	423.4	417.4
35°	5824.1	3258.3	1394.7	921.9	726.0	555.9	459.0	411.5	385.8	373.9	369.9
37.5°	6012.1	3094.1	1206.8	846.7	637.0	480.7	401.6	368.0	344.2	332.4	328.4
40°	6314.7	3011.0	1048.5	765.6	550.0	423.4	364.0	332.4	306.6	288.8	284.9
42.5°	6759.9	3022.8	937.7	684.5	480.7	377.9	328.4	290.8	263.1	247.3	243.3
45°	7299.9	3109.9	860.6	605.4	423.4	342.2	288.8	249.3	223.5	209.7	205.7
47.5°	7885.5	3250.4	797.3	534.1	377.9	308.6	249.3	207.7	186.0	174.1	172.1
50°	8502.8	3386.9	732.0	464.9	338.3	275.0	209.7	172.1	154.3	144.4	140.5
52.5°	9127.9	3545.1	672.6	401.6	304.7	235.4	174.1	140.5	126.6	118.7	114.7
55°	9800.5	3663.8	615.3	352.1	271.0	199.8	144.4	116.7	104.9	95.0	93.0
57.5°	10591.8	3847.8	555.9	304.7	231.5	166.2	118.7	93.0	83.1	73.2	71.2
60°	11660.1	4063.4	492.6	269.0	189.9	136.5	96.9	75.2	63.3	55.4	53.4
62.5°	13068.7	4302.8	413.5	235.4	154.3	110.8	77.2	59.3	45.5	35.6	35.6
65°	14855.1	4692.5	338.3	197.8	126.6	91.0	59.3	43.5	25.7	15.8	15.8
67.5°	15897.7	4759.8	273.0	162.2	102.9	77.2	49.5	29.7	7.9	2.0	0.0
69°	15563.3	4370.1	231.5	138.5	89.0	73.2	45.5	21.8	4.0	0.0	0.0
70°	14934.2	3996.2	203.8	122.7	81.1	69.2	43.5	15.8	4.0	0.0	0.0
72.5°	12340.7	2844.8	154.3	91.0	59.3	61.3	39.6	9.9	4.0	0.0	0.0
75°	8989.4	1729.0	110.8	63.3	37.6	45.5	27.7	4.0	2.0	0.0	0.0
77.5°	5001.2	815.1	69.2	35.6	23.7	27.7	13.8	0.0	0.0	0.0	0.0
80°	1624.2	221.6	31.7	19.8	13.8	15.8	5.9	0.0	0.0	0.0	0.0
82.5°	300.7	63.3	17.8	9.9	4.0	4.0	0.0	0.0	0.0	0.0	0.0
85°	65.3	25.7	9.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.8	7.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)